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- (71) Applicant (for all designated States except US): **KONINKLIJKE PHILIPS ELECTRONICS N.V.** [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **BARRAU, Eric** [FR/FR]; 156 Boulevard Haussmann, F-75008 Paris (FR). **BOURGE, Arnaud** [FR/FR]; 156 Boulevard Haussmann, F-75008 PARIS (FR). **BOTTREAU, Vincent** [FR/FR]; 156 Boulevard Haussmann, F-75008 PARIS (FR).
- (74) Agent: **LANDOUSY, Christian**; Société Civile SPID, 156 Boulevard Haussmann, F-75008 Paris (FR).

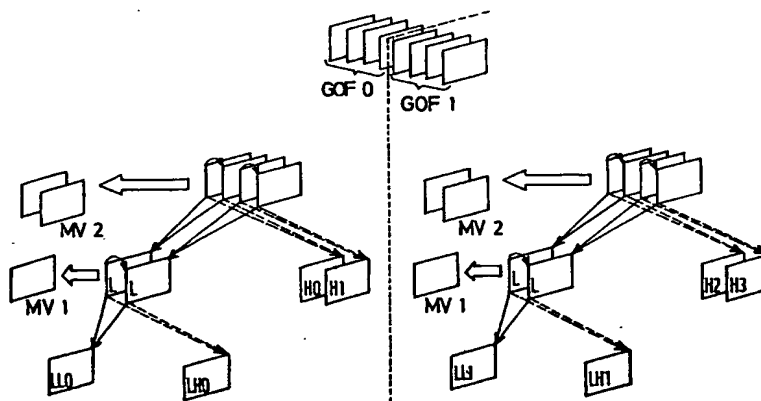
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(54) Title: VIDEO CODING METHOD AND DEVICE



(57) Abstract: The invention generally relates to a three-dimensional (3D) video coding method for the compression of a bitstream corresponding to an original video sequence that has been divided into successive groups of  $N = 2^n$  frames (GOFs), and, more precisely, to a method comprising the following steps: (a) a spatio-temporal analysis step, leading to a spatio-temporal multiresolution decomposition of the current GOF into low and high frequency temporal subbands and itself comprising a motion estimation sub-step, a motion compensated temporal filtering sub-step, performed on each of the  $2^{n-1}$  couples of frames of the current GOF, and a spatial analysis sub-step, performed on the subbands resulting from said temporal filtering sub-step; (b) an encoding step, comprising entropy and arithmetic coding sub-steps. According to the invention, when said temporal filtering sub-step comprises  $(n-1)$  levels and the final temporal decomposition level that would have led to a single low-frequency subband is omitted, the spatio-temporal analysis and encoding steps are performed according to the following rules: (a) each current input GOF is splitted into two new GOFs with half the original size; (b) in each of these two new GOFs, a complete spatio-temporal multiresolution decomposition with  $(n-1)$  levels is performed down to the last low frequency temporal subband; (c) a modified 3D-SPIHT scanning is applied consecutively and independently on these two new GOFs.

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